### REMARKS

In the Office Action, claims 1-23 were rejected. By the present Response, claims 1 and 17 are amended and new claims 24-26 have been added. Upon entry of the amendments, claims 1-26 will remain pending in the present patent application. Reconsideration and allowance of all pending claims are requested.

# Rejections Under 35 U.S.C. § 102

The Office Action summarizes claims 1-5, 10-20 and 23 as rejected under 35 U.S.C. §102(b) as being anticipated by Bunker et al. (U.S. Patent No. 6,234,755; hereinafter "Bunker"). Rejected claims land 17 are independent and will be discussed in detail below.

By the present response independent claims 1 and 17 are amended. Independent claims 1 and 17 and the claims depending there from are believed to be patentable for the reasons summarized below.

#### Claims 1 and 17

Amended claim 1 recites a method for forming a flow director on a component comprising a wall, said method comprising depositing at least one layer on the wall of the component, wherein said deposition includes shaping the at least one layer in accordance with a predetermined shape to form the flow director that extends outwards from the wall of the component.

Amended claim 17 recites a method for forming a flow director on a turbine component comprising a wall having a cold surface and a hot surface, wherein at least one film-cooling hole extends through the wall for flowing a coolant from the cold surface to the hot surface, the film-cooling hole defining an exit site in the hot surface of the wall. The method includes depositing at least one layer on the wall of the component,

wherein said deposition includes shaping the at least one layer in accordance with a predetermined shape to form the flow director that extends outwards from the wall of the component.

Applicants thus submit that independent claims 1, and 17 recite, in generally similar language, forming the flow director that extends outwards from the wall of the component. See Application, paragraph [0027]; Fig. 3.

The Examiner argued that Bunker discloses a method of forming a flow director (by forming a slot over the holes) on a component comprising a wall by depositing at least one layer on the wall of the component, wherein said deposition includes shaping the layers in accordance with the predetermined shape of the flow director. The Examiner cited passages at col. 2, lines 20-24 and lines 50-60 in support of the rejection.

The passages relied upon by the Examiner have been carefully reviewed and it is respectfully submitted that the passages do not relate to forming a flow director that extends outwards from the wall of the component. Rather, Bunker discloses a method for improving the cooling effectiveness of a fluid, which flows through a row of passage holes in a substrate out to a high temperature surface of the substrate. The method involves forming a slot over the holes, within the high temperature surface of the substrate. See, Bunker, Abstract. Further, the slot extends partly inwardly and perpendicularly from a second surface to a first surface and longitudnally along a longitudnal axis disposed perpendicularly to both the transverse axis and the axial axis. See, Bunker, col. 6, lines 9-14. Clearly, Bunker does not teach the flow director extending outwards from the surface.

Applicants respectfully submit that a *prima facie* case of anticipation cannot be supported by Bunker against claims 1 and 17. Therefore, it is submitted that independent

claims I and 17 and their dependent claims are allowable and respectfully request the Examiner to reconsider rejection of the claim.

# Rejections Under 35 U.S.C. § 103

The Office Action summarizes claims 6-9, 21 and 22 as rejected under 35 U.S.C. §103(a) as being unpatentable over Bunker in view of Sabol et al. (U.S. Patent No. 6,060,174).

Claims 6-9, 21 and 22 depend from independent claims 1 and 17, respectively. Applicants respectfully submit that insomuch as independent claims 1 and 17 are allowable, these claims are allowable at least by virtue of their dependence from an allowable base claim.

### New claim

Claims 24- 25 have been added to add recitations regarding the flow director being formed on the hot gas path surface of the component. The hot gas path component comprising wheelspaces, angelwings, a rotor surface, combustor liners and the component comprising a steam turbine, a compressor, a heat exchanger. Further, claim 26 has been added to disclose the flow director comprising an airfoil trailing edge bleed slot flow director that is configured to direct the coolant towards the hot surface.

The recitations are fully supported in the specification. Further, claims 24-26 depend from independent claims 1 and 17 respectively and therefore are allowable at least by virtue of their dependence from an allowable base claim.

#### Conclusion

In view of the remarks and amendments set forth above, Applicants respectfully request allowance of the pending claims. If the Examiner believes that a telephonic interview will help speed this application toward issuance, the Examiner is invited to contact the undersigned at the telephone number listed below.

Date: 2/8/06

Respectfully submitted,

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